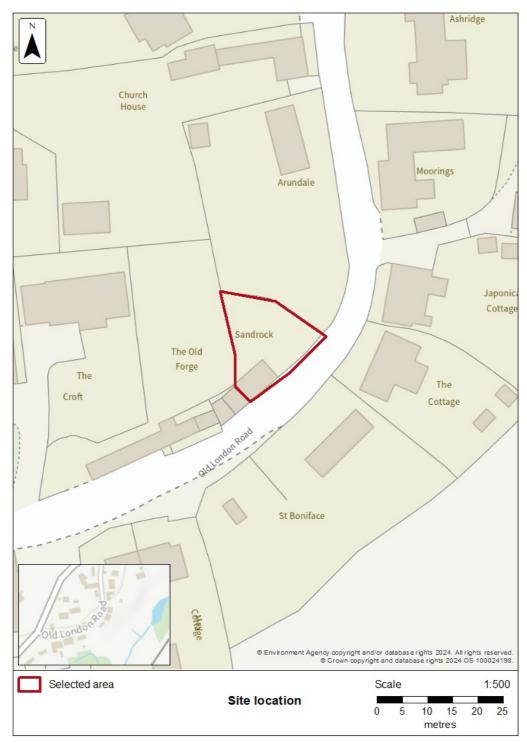
Flood risk assessment data



Location of site: Sandrock, Old London Road, Coldwaltham, RH20 1LF Document created on: 25 March 2024 This information was previously known as a product 4. Customer reference number: SSD351663

Map showing the location that flood risk assessment data has been requested for.



How to use this information

You can use this information as part of a flood risk assessment for a planning application. To do this, you should include it in the appendix of your flood risk assessment.

We recommend that you work with a flood risk consultant to get your flood risk assessment.

Included in this document

In this document you'll find:

- how to find information about surface water and other sources of flooding
- definitions for the terminology used throughout
- flood map for planning (rivers and the sea)
- historic flooding
- flood defences and attributes
- information to help you assess if there is a reduced flood risk from rivers and the sea because of defences
- information about strategic flood risk assessments
- information about this data
- information about flood risk activity permits
- help and advice

Surface water and other sources of flooding

Use the long term flood risk service to find out about the risk of flooding from:

- surface water
- ordinary watercourses
- reservoirs

For information on flooding from other sources such as surface water please contact the Lead Local Flood Authority, West Sussex County Council.

For information about sewer flooding, contact the relevant water company for the area.

About the models used

Model name: Lower Tidal River Arun Strategy Scenario(s): Defended Fluvial, Undefended Fluvial Date: 2010

This model contains the most relevant data for your area of interest.

Terminology used

Annual exceedance probability (AEP)

This refers to the probability of a flood event occurring in any year. The probability is expressed as a percentage. For example, a large flood which is calculated to have a 1% chance of occuring in any one year, is described as 1% AEP.

Metres above ordnance datum (mAOD)

All flood levels are given in metres above ordnance datum which is defined as the mean sea level at Newlyn, Cornwall.

Flood map for planning (rivers and the sea)

Your selected location is in flood zone 3.

Flood zone 3 shows the area at risk of flooding for an undefended flood event with a:

- 0.5% or greater probability of occurring in any year for flooding from the sea
- 1% or greater probability of occurring in any year for fluvial (river) flooding

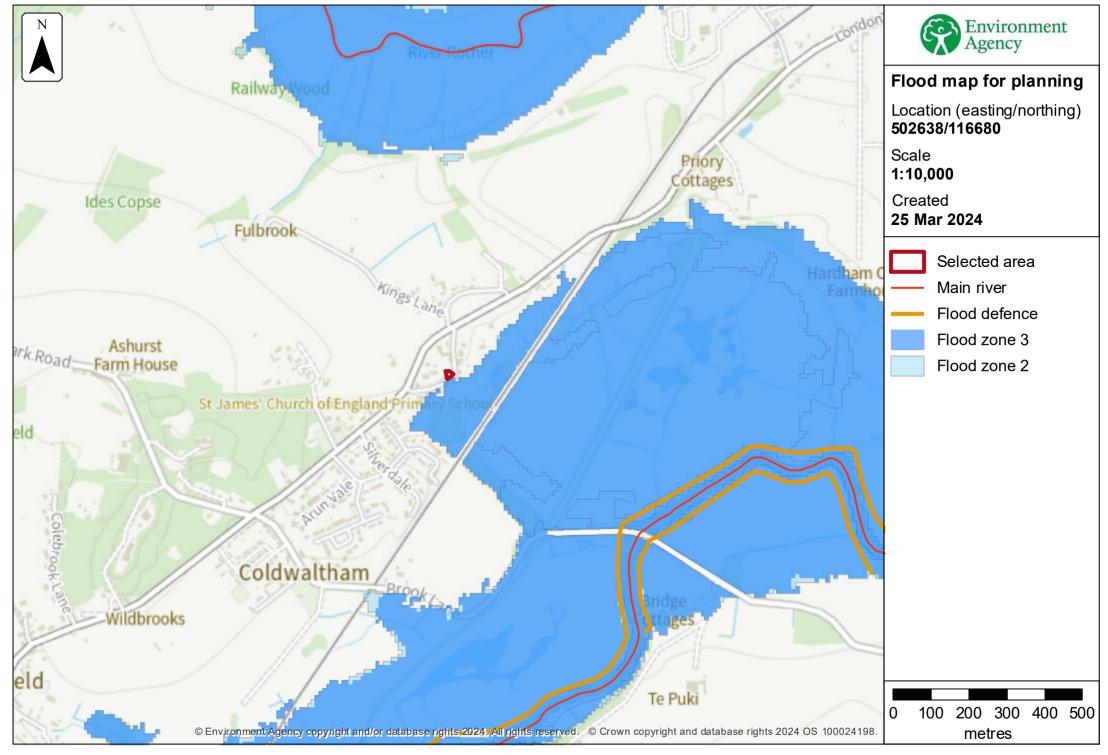
Flood zone 2 shows the area at risk of flooding for an undefended flood event with:

- between a 0.1% and 0.5% probability of occurring in any year for flooding from the sea
- between a 0.1% and 1% probability of occurring in any year for fluvial (river) flooding

It's important to remember that the flood zones on this map:

- refer to the land at risk of flooding and do not refer to individual properties
- refer to the probability of river and sea flooding, ignoring the presence of defences
- do not take into account potential impacts of climate change

The flood zones are not currently being updated. The last update was in November 2023. Some of the flood zones may have changed, however all source data is included in the models below.



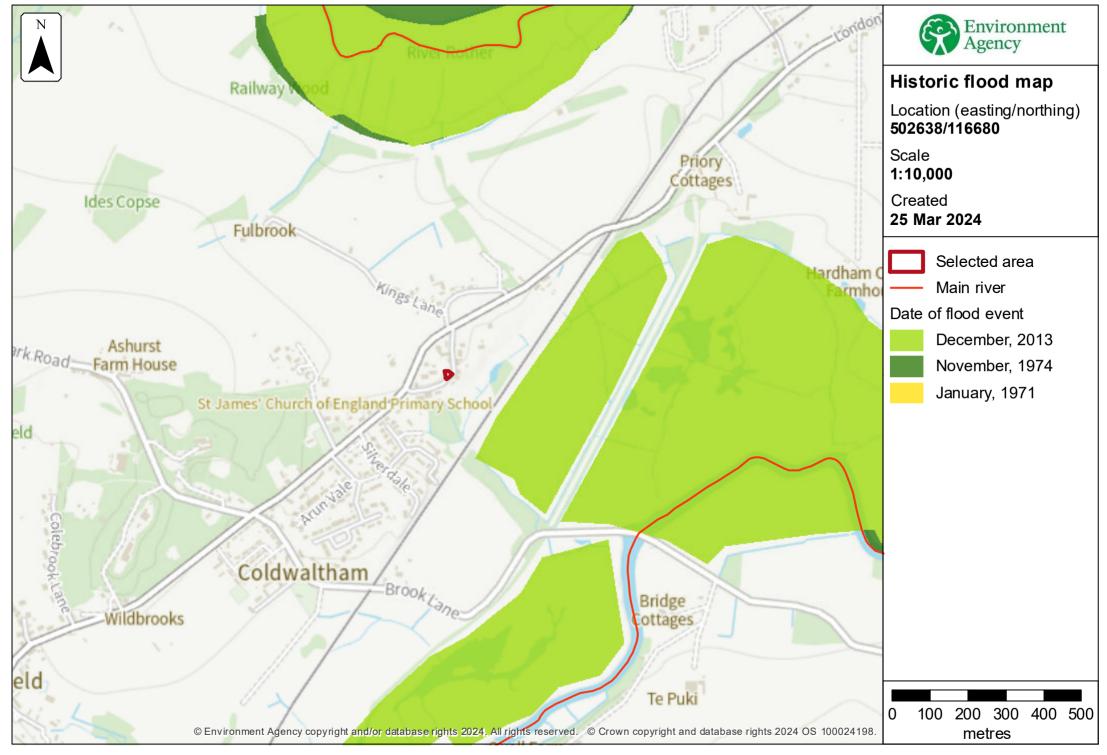
Historic flooding

This map is an indicative outline of areas that have previously flooded. Remember that:

- our records are incomplete, so the information here is based on the best available data
- it is possible not all properties within this area will have flooded
- other flooding may have occurred that we do not have records for
- flooding can come from a range of different sources we can only supply flood risk data relating to flooding from rivers or the sea

You can also contact your Lead Local Flood Authority or Internal Drainage Board to see if they have other relevant local flood information. Please note that some areas do not have an Internal Drainage Board.

Download recorded flood outlines in GIS format



Historic flood event data

Start date	End date	Source of flood	Cause of flood	Affects location
1 December 2013	1 February 2014	mainriver	overtopping of defences	No
23 November 1974	23 November 1974	main river	overtopping of defences	No
26 January 1971	26 January 1971	main river	other	No

Flood defences and attributes

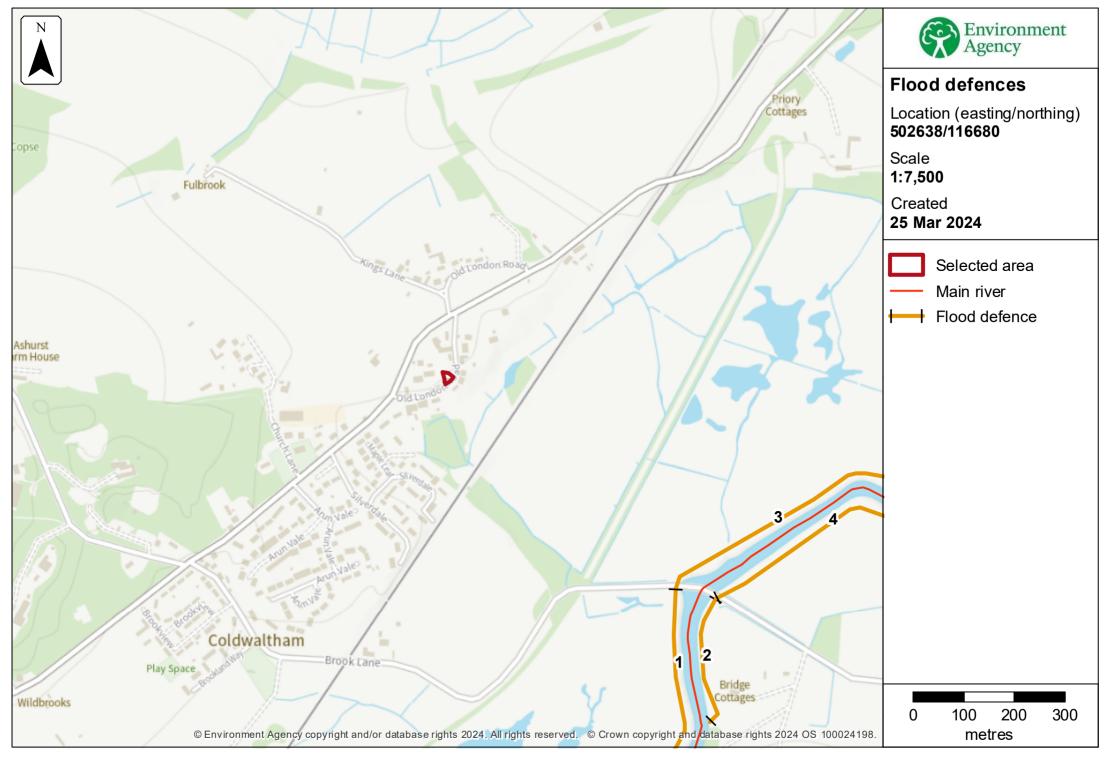
The flood defences map shows the location of the flood defences present.

The flood defences data table shows the type of defences, their condition and the standard of protection. It shows the height above sea level of the top of the flood defence (crest level). The height is In mAOD which is the metres above the mean sea level at Newlyn, Cornwall.

It's important to remember that flood defence data may not be updated on a regular basis. The information here is based on the best available data.

Use this information:

- to help you assess if there is a reduced flood risk for this location because of defences
- with any information in the modelled data section to find out the impact of defences on flood risk



Page 10

Flood defences data

Label	Asset ID	Asset Type	Standard of protection (years)	Current condition	Downstream actual crest level (mAOD)	Upstream actual crest level (mAOD)	Effective crest level (mAOD)
1	9891	Embankment	50		3.91	4.10	3.84
2	128816	Embankment	75		4.60	4.32	4.22
3	109596	Embankment	50		3.95	4.31	
4	87859	Embankment	50		4.31	4.29	3.88

Any blank cells show where a particular value has not been recorded for an asset.

Modelled data

This section provides details of different scenarios we have modelled and includes the following (where available):

- outline maps showing the area at risk from flooding in different modelled scenarios
- modelled node point map(s) showing the points used to get the data to model the scenarios and table(s) providing details of the flood risk for different return periods
- map(s) showing the approximate water levels for the return period with the largest flood extent for a scenario and table(s) of sample points providing details of the flood risk for different return periods

Climate change

The climate change data included in the models may not include the <u>latest flood risk</u> <u>assessment climate change allowances</u>. Where the new allowances are not available you will need to consider this data and factor in the new allowances to demonstrate the development will be safe from flooding.

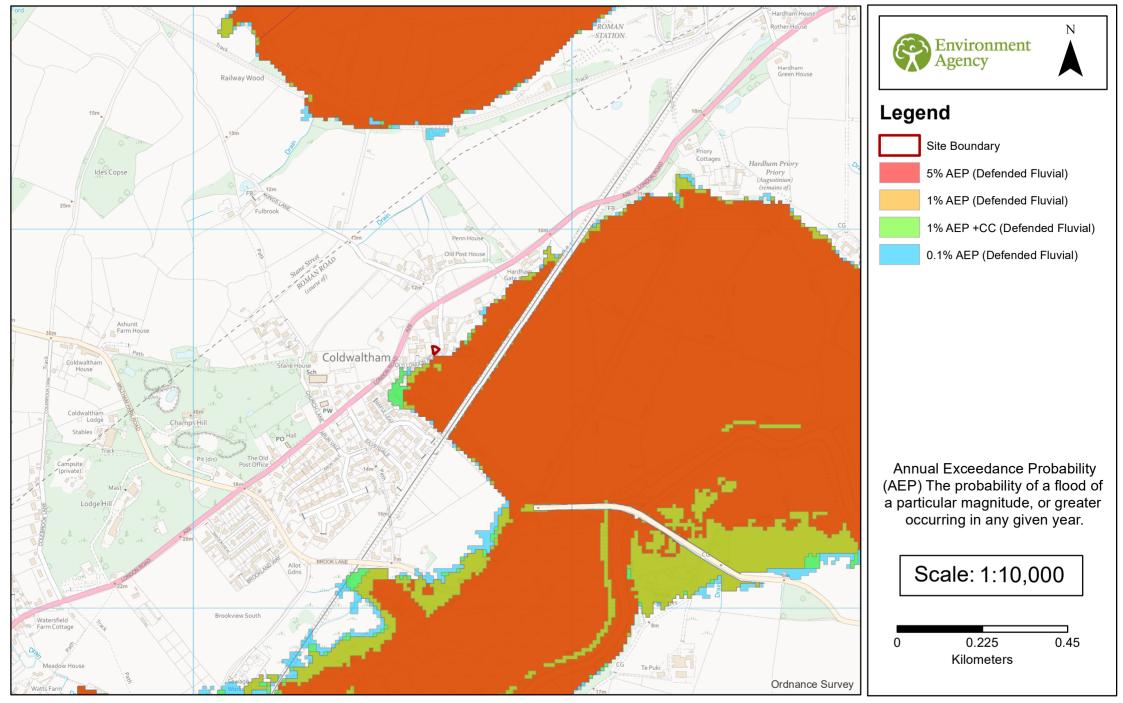
The Environment Agency will incorporate the new allowances into future modelling studies. For now, it's your responsibility to demonstrate that new developments will be safe in flood risk terms for their lifetime.

Modelled scenarios

The following scenarios are included:

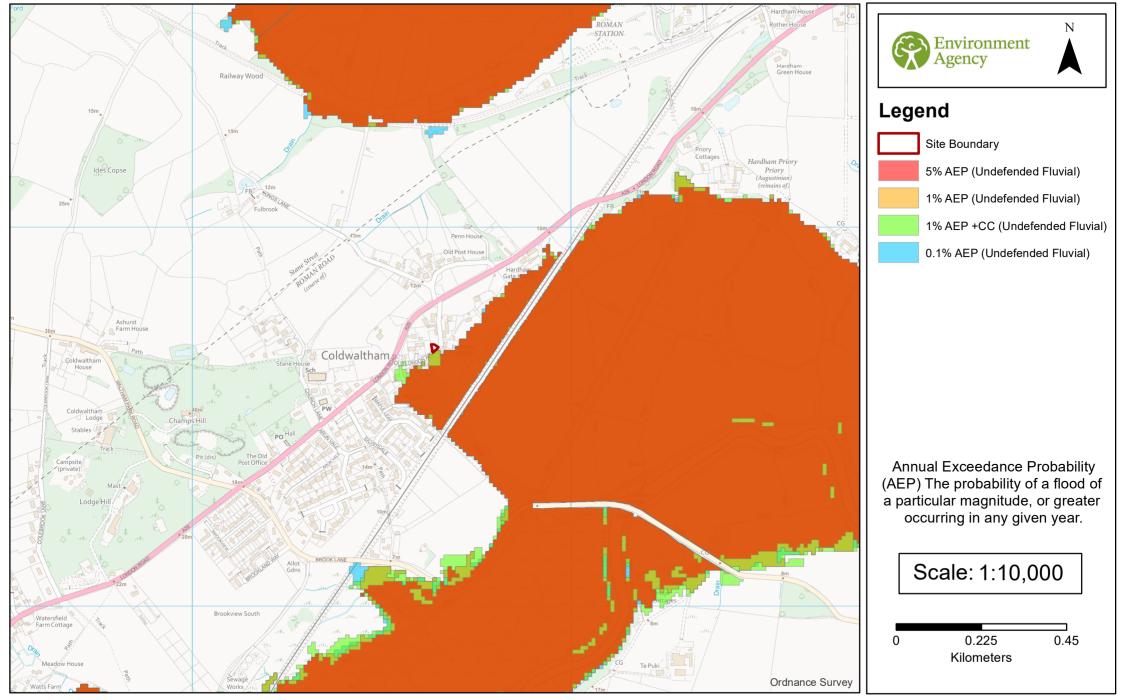
- Defended modelled fluvial: risk of flooding from rivers where there are flood defences
- No defences exist modelled fluvial: risk of flooding from rivers where there are no flood defences

Modelled Flood Outlines (Defended Fluvial). Centred RH20 1LF. Created 25/03/2024.

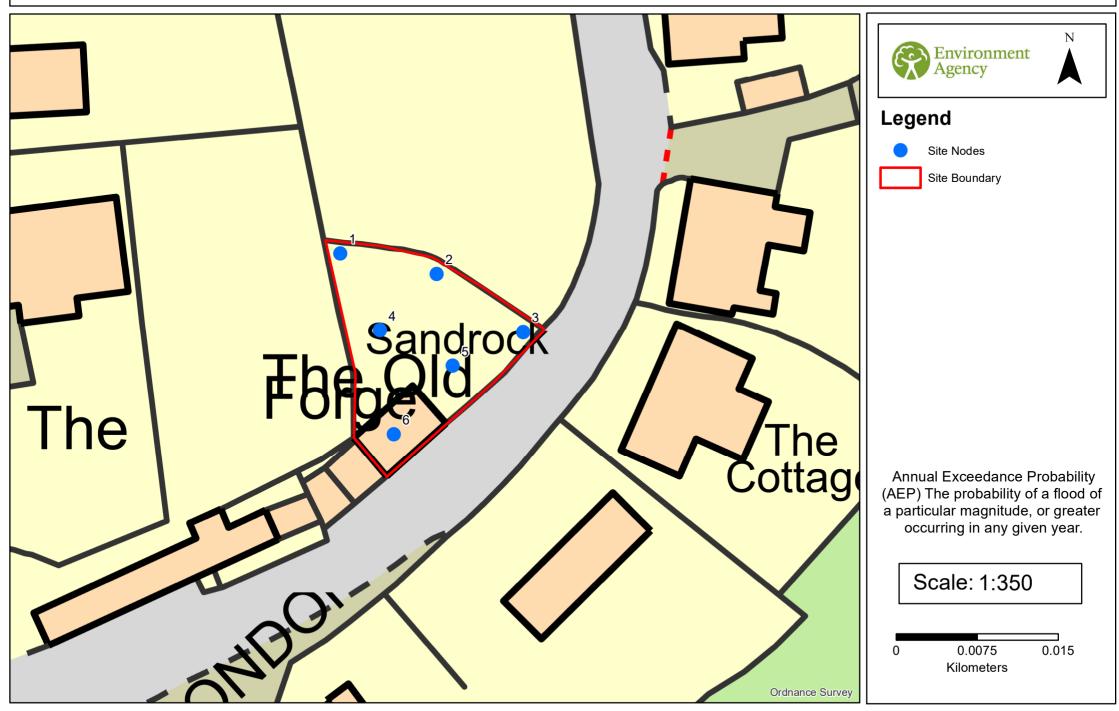


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Modelled Flood Outlines (Undefended Fluvial). Centred RH20 1LF. Created 25/03/2024.



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Product 4 Flood Risk Data Requested by: Mark Smith

Site: Sandrock, Old London Road, Coldwaltham, RH20 1LF

Table 1: Water Levels: Fluvial Undefended

	NGR		Modelled Flood Levels in Metres AOD Undefended Annual Exceedance Probability				
Node Ref	Eastings	Northings	5%	1%	1% +CC*	0.1%	
1	502632	116690	-	-	-	-	
2	502641	116688	-	-	-	-	
3	502649	116682	-	-	-	-	
4	502635	116682	-	-	-	-	
5	502642	116679	-	-	-	-	
6	502637	116673	-	3.74	4.16	4.53	

 Table 2: Water Levels: Fluvial Defended

	NGR		Modelled Flood Levels in Metres AOD Defended Annual Exceedance Probability				
Node Ref	Eastings	Northings	5%	1%	1% +CC*	0.1%	
1	502632	116690	-	-	-	-	
2	502641	116688	-	-	-	-	
3	502649	116682	-	-	-	-	
4	502635	116682	-	-	-	-	
5	502642	116679	-	-	-	-	
6	502637	116673	-	-	-	-	

Table 3: Water Depths: Fluvial Undefended

	NGR		Modelled Flood Depths in Metres Undefended Annual Exceedance Probability				
Node Ref	Eastings	Northings	5%	1%	1% +CC*	0.1%	
1	502632	116690	-	-	-	-	
2	502641	116688	-	-	-	-	
3	502649	116682	-	-	-	-	
4	502635	116682	-	-	-	-	
5	502642	116679	-	-	-	-	
6	502637	116673	-	0.17	0.59	0.95	

Office Address: Guildbourne House, Chatsworth Road, Worthing BN11 1LD. Customer services line: 03708 506 506. Email: <u>enquiries@environment-agency.gov.uk</u> <u>www.gov.uk/government/organisations/environment-agency</u>

Table 4: Water Depths: Fluvial Defended

	NGR		Modelled Flood Depths in Metres Defended Annual Exceedance Probability				
Node Ref	Eastings	Northings	5%	1%	1% +CC*	0.1%	
1	502632	116690	-	-	-	-	
2	502641	116688	-	-	-	-	
3	502649	116682	-	-	-	-	
4	502635	116682	-	-	-	-	
5	502642	116679	-	-	-	-	
6	502637	116673	-	-	-	-	

All levels taken from: Lower Tidal River Arun Strategy Study, completed by Atkins in 2010.

Produced on: 25/03/2024

* The flood risk data provided is based on existing EA hydraulic models with an allowance for climate change. Please note the climate change allowances provided are not up to date. These were updated on 17 December 2019.

You should refer to <u>'Flood risk assessments: climate change allowances'</u> for the most up to date allowances. You will need to undertake further assessment of future flood risk using different allowances to ensure your assessment of future flood risk is based on best available evidence.

There is no additional information or health warnings for these levels/depths or the model from which they have been produced.

Strategic flood risk assessments

We recommend that you check the relevant local authority's strategic flood risk assessment (SFRA) as part of your work to prepare a site specific flood risk assessment.

This should give you information about:

- the potential impacts of climate change in this catchment
- areas defined as functional floodplain
- flooding from other sources, such as surface water, ground water and reservoirs

About this data

This data has been generated by strategic scale flood models and is not intended for use at the individual property scale. If you're intending to use this data as part of a flood risk assessment, please include an appropriate modelling tolerance as part of your assessment. The Environment Agency regularly updates its modelling. We recommend that you check the data provided is the most recent, before submitting your flood risk assessment.

Flood risk activity permits

Under the Environmental Permitting (England and Wales) Regulations 2016 some developments may require an environmental permit for flood risk activities from the Environment Agency. This includes any permanent or temporary works that are in, over, under, or nearby a designated main river or flood defence structure.

Find out more about flood risk activity permits

Help and advice

Contact the Solent and South Downs Environment Agency team at <u>ssdenquiries@environment-agency.gov.uk</u> for:

- more information about getting a product 5, 6, 7 or 8
- general help and advice about the site you're requesting data for